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29 October 1965Copy 5

MEMORANDUM FOR: Chief, Plans & Development Staff, NPIC

ATTENTION:

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SUBJECT: Mission Information Required for
Infrared Sensor Exploitation

1. As a result of discussion with your office and ORP/CIA and in response to the P&DS memorandum BYE-41864/65 dated 13 October 1965, a list of required Mission data for IR Sensor Exploitation has been prepared by the Photographic Analysis Group.

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2. The form in which these data may be presented is variable in most cases and should be dictated by practicality with regard to sensor system harmony and by the application of the principal of timely intelligence production. It is emphasized that the photo interpretation tasks are expedited when essential mission data is man readable.

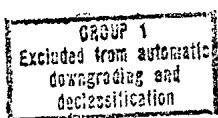
3. A. The following items are those considered to be "essential" mission data.

1. Mission Number
2. Mission Date
3. Sensor Designation (Fore/Aft etc.)
4. Imagery Reference Points (Fiducials etc. Keyed to index)
5. Imagery Index (Time track or Frame No.)
6. Greenwich Mean Time (Each frame ideally)
7. Altitude (Actual if possible)
8. Geographic Coordinates (Each frame ideally)
9. Velocity/Height Ratio (On format if variable).

B. Additional information which is classed as desirable includes:

1. Aircraft Roll/Bank Indicator (On format)
2. Continuous Time Track (If not as in 3A, 5 above).

4. A. The following items (Keyed to number in 3A above) should be included on the photo format in either man readable or data block form: Items 3, 4, 5, 6, 7, 8 and 9.

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- B. Items 1 and 2 (Para 3A above) may be annotated on the lead and tail of strip map formats but if framing formats evolve, this data should appear on each frame.
- C. The items listed in 3B above, would normally appear on the image format.
5. In addition to the mission data listed above, certain data concerning the sensor employed should be available upon receipt of imagery. These are as follows:
- A. Detector type (Sensitivity Range)
 - B. Instantaneous Field of View
 - C. Temperature Resolution (NET)
 - D. Scan Angle
 - E. Scan Rate
 - F. Degree of Stabilization
 - G. Velocity Height Ratio



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Colonel, USA
Assistant for Photographic Analysis, NPIC

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